

<110> Bandman, Olga
 Lal, Preeti
 Tang, Y. Tom
 Baughn, Mariah R.

<120> HUMAN GPCR PROTEINS

<130> PC-0044 CIP

<140> To Be Assigned
 <141> Herewith

<160> 74

<170> PERL Program

<210> 1
 <211> 441
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1258981CD1

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Phe	Leu	Phe	Pro	Gly	Ala	Trp	Ala	Gln	Gly	His	Val	Pro	Pro	Gly
						20			25				30	
Cys	Ser	Gln	Gly	Leu	Asn	Pro	Leu	Tyr	Tyr	Asn	Leu	Cys	Asp	Arg
					35				40				45	
Ser	Gly	Ala	Trp	Gly	Ile	Val	Leu	Glu	Ala	Val	Ala	Gly	Ala	Gly
					50				55				60	
Ile	Val	Thr	Thr	Phe	Val	Leu	Thr	Ile	Ile	Leu	Val	Ala	Ser	Leu
					65				70				75	
Pro	Phe	Val	Gln	Asp	Thr	Lys	Lys	Arg	Ser	Leu	Leu	Gly	Thr	Gln
					80				85				90	
Val	Phe	Leu	Leu	Gly	Thr	Leu	Gly	Leu	Phe	Cys	Leu	Val	Phe	
					95				100				105	
Ala	Cys	Val	Val	Lys	Pro	Asp	Phe	Ser	Thr	Cys	Ala	Ser	Arg	Arg
					110				115				120	
Phe	Leu	Phe	Gly	Val	Leu	Phe	Ala	Ile	Cys	Phe	Ser	Cys	Leu	Ala
					125				130				135	
Ala	His	Val	Phe	Ala	Leu	Asn	Phe	Leu	Ala	Arg	Lys	Asn	His	Gly
					140				145				150	
Pro	Arg	Gly	Trp	Val	Ile	Phe	Thr	Val	Ala	Leu	Leu	Leu	Thr	Leu
					155				160				165	
Val	Glu	Val	Ile	Ile	Asn	Thr	Glu	Trp	Leu	Ile	Ile	Thr	Leu	Val
					170				175				180	
Arg	Gly	Ser	Gly	Glu	Gly	Gly	Pro	Gln	Gly	Asn	Ser	Ser	Ala	Gly
					185				190				195	
Trp	Ala	Val	Ala	Ser	Pro	Cys	Ala	Ile	Ala	Asn	Met	Asp	Phe	Val
					200				205				210	
Met	Ala	Leu	Ile	Tyr	Val	Met	Leu	Leu	Leu	Leu	Gly	Ala	Phe	Leu
					215				220				225	
Gly	Ala	Trp	Pro	Ala	Leu	Cys	Gly	Arg	Tyr	Lys	Arg	Trp	Arg	Lys
					230				235				240	
His	Gly	Val	Phe	Val	Leu	Leu	Thr	Thr	Ala	Thr	Ser	Val	Ala	Ile
					245				250				255	
Trp	Val	Val	Trp	Ile	Val	Met	Tyr	Thr	Tyr	Gly	Asn	Lys	Gln	His
					260				265				270	
Asn	Ser	Pro	Thr	Trp	Asp	Asp	Pro	Thr	Leu	Ala	Ile	Ala	Leu	Ala
					275				280				285	
Ala	Asn	Ala	Trp	Ala	Phe	Val	Leu	Phe	Tyr	Val	Ile	Pro	Glu	Val
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09825666 - 098256

<210> 2
<211> 353
<212> PRT
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 1459432CD1

<400> 2

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Asn	Thr	Ser	Asp	Gly	Pro	Asp	Asn	Leu	Thr	Ser	Ala	Gly	Ser	Pro
					20				25					30
Pro	Arg	Thr	Gly	Ser	Ile	Ser	Tyr	Ile	Asn	Ile	Ile	Met	Pro	Ser
					35				40					45
Val	Phe	Gly	Thr	Ile	Cys	Leu	Leu	Gly	Ile	Ile	Gly	Asn	Ser	Thr
					50				55					60
Val	Ile	Phe	Ala	Val	Val	Lys	Lys	Ser	Lys	Leu	His	Trp	Cys	Asn
					65				70					75
Asn	Val	Pro	Asp	Ile	Phe	Ile	Ile	Asn	Leu	Ser	Val	Val	Asp	Leu
					80				85					90
Leu	Phe	Leu	Leu	Gly	Met	Pro	Phe	Met	Ile	His	Gln	Leu	Met	Gly
					95				100					105
Asn	Gly	Val	Trp	His	Phe	Gly	Glu	Thr	Met	Cys	Thr	Leu	Ile	Thr
					110				115					120
Ala	Met	Asp	Ala	Asn	Ser	Gln	Phe	Thr	Ser	Thr	Tyr	Ile	Leu	Thr
					125				130					135
Ala	Met	Ala	Ile	Asp	Arg	Tyr	Leu	Ala	Thr	Val	His	Pro	Ile	Ser
					140				145					150
Ser	Thr	Lys	Phe	Arg	Lys	Pro	Ser	Val	Ala	Thr	Leu	Val	Ile	Cys
					155				160					165
Leu	Leu	Trp	Ala	Leu	Ser	Phe	Ile	Ser	Ile	Thr	Pro	Val	Trp	Leu
					170				175					180
Tyr	Ala	Arg	Leu	Ile	Pro	Phe	Pro	Gly	Gly	Ala	Val	Gly	Cys	Gly
					185				190					195
Ile	Arg	Leu	Pro	Asn	Pro	Asp	Thr	Asp	Leu	Tyr	Trp	Phe	Thr	Leu
					200				205					210
Tyr	Gln	Phe	Phe	Leu	Ala	Phe	Ala	Leu	Pro	Phe	Val	Val	Ile	Thr
					215				220					225
Ala	Ala	Tyr	Val	Arg	Ile	Leu	Gln	Arg	Met	Thr	Ser	Ser	Val	Ala
					230				235					240
Pro	Thr	Ser	Gln	Arg	Ser	Ile	Arg	Leu	Arg	Thr	Lys	Arg	Val	Thr
					245				250					255
Arg	Thr	Ala	Ile	Ala	Ile	Cys	Leu	Val	Phe	Phe	Val	Cys	Trp	Ala

260	265	270
Pro Tyr Tyr Val	Leu Gln Leu Thr Gln	Leu Ser Ile Ser Arg
275	280	285
Thr Pro Thr Phe Val	Tyr Leu Tyr Asn	Ala Ala Ile Ser Leu
290	295	300
Tyr Ala Asn Ser Cys	Leu Asn Pro Phe Val	Tyr Ile Val Leu
305	310	315
Glu Thr Phe Arg Lys	Arg Leu Val Leu	Ser Val Lys Pro Ala
320	325	330
Gln Gly Gln Leu Arg	Ala Val Ser Asn	Ala Gln Ala Ala Asp
335	340	345
Glu Arg Thr Glu Ser	Lys Gly Thr	
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<210> 3
<211> 333
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2214673CD1

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Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly	Leu Ser Leu Leu Ser	
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Leu Leu Gly Leu Val Val Gly Val Pro Val	Gly Leu Cys Tyr Asn	
35 40 45		
Ala Leu Leu Val Leu Ala Asn Leu His Ser	Lys Ala Ser Met Thr	
50 55 60		
Met Pro Asp Val Tyr Phe Val Asn Met Ala Val	Ala Gly Leu Val	
65 70 75		
Leu Ser Ala Leu Ala Pro Val His Leu Leu	Gly Pro Pro Ser Ser	
80 85 90		
Arg Trp Ala Leu Trp Ser Val Gly Gly	Glu Val His Val Ala Leu	
95 100 105		
Gln Ile Pro Phe Asn Val Ser Ser Leu Val	Ala Met Tyr Ser Thr	
110 115 120		
Ala Leu Leu Ser Leu Asp His Tyr Ile	Glu Arg Ala Leu Pro Arg	
125 130 135		
Thr Tyr Met Ala Ser Val Tyr Asn Thr	Arg His Val Cys Gly Phe	
140 145 150		
Val Trp Gly Gly Ala Leu Leu Thr Ser	Phe Ser Ser Leu Leu Phe	
155 160 165		
Tyr Ile Cys Ser His Val Ser Thr Arg	Ala Leu Glu Cys Ala Lys	
170 175 180		
Met Gln Asn Ala Glu Ala Ala Asp Ala	Thr Leu Val Phe Ile Gly	
185 190 195		
Tyr Val Val Pro Ala Leu Ala Thr Leu	Tyr Ala Leu Val Leu Leu	
200 205 210		
Ser Arg Val Arg Arg Glu Asp Thr Pro	Leu Asp Arg Asp Thr Gly	
215 220 225		
Arg Leu Glu Pro Ser Ala His Arg Leu	Leu Val Ala Thr Val Cys	
230 235 240		
Thr Gln Phe Gly Leu Trp Thr Pro His	Tyr Leu Ile Leu Leu	Gly
245 250 255		
His Thr Gly Ile Ile Ser Arg Gly Lys	Pro Val Asp Ala His	Tyr
260 265 270		
Leu Gly Leu Leu His Phe Val Lys Asp	Phe Ser Lys Leu Leu	Ala
275 280 285		
Phe Ser Ser Ser Phe Val Thr Pro Leu	Leu Tyr Arg Tyr Met Asn	
290 295 300		
Gln Ser Phe Pro Ser Lys Leu Gln Arg	Leu Met Lys Lys Leu	Pro
305 310 315		

Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln
 320 325 330
 Val Leu Ala

<210> 4
 <211> 396
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2488822CD1

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 Phe Gln Tyr Cys Gly Tyr Ala Pro His Val Arg Ser Cys Lys Pro
 20 25 30
 Asn Thr Asp Gly Ile Ser Ser Leu Glu Asn Leu Leu Ala Ser Ile
 35 40 45
 Ile Gln Arg Val Phe Val Trp Val Val Ser Ala Val Thr Cys Phe
 50 55 60
 Gly Asn Ile Phe Val Ile Cys Met Arg Pro Tyr Ile Arg Ser Glu
 65 70 75
 Asn Lys Leu Tyr Ala Met Ser Ile Ile Ser Leu Cys Cys Ala Asp
 80 85 90
 Cys Leu Met Gly Ile Tyr Leu Phe Val Ile Gly Gly Phe Asp Leu
 95 100 105
 Lys Phe Arg Gly Glu Tyr Asn Lys His Ala Gln Leu Trp Met Glu
 110 115 120
 Ser Thr His Cys Gln Leu Val Gly Ser Leu Ala Ile Leu Ser Thr
 125 130 135
 Glu Val Ser Val Leu Leu Leu Thr Phe Leu Thr Leu Glu Lys Tyr
 140 145 150
 Ile Cys Ile Val Tyr Pro Phe Arg Cys Val Arg Pro Gly Lys Cys
 155 160 165
 Arg Thr Ile Thr Val Leu Ile Leu Ile Trp Ile Thr Gly Phe Ile
 170 175 180
 Val Ala Phe Ile Pro Leu Ser Asn Lys Glu Phe Phe Lys Asn Tyr
 185 190 195
 Tyr Ala Pro Asn Gly Val Cys Phe Pro Leu His Ser Glu Asp Thr
 200 205 210
 Glu Ser Ile Gly Ala Gln Ile Tyr Ser Val Ala Ile Phe Leu Gly
 215 220 225
 Ile Asn Leu Ala Ala Phe Ile Ile Ile Val Phe Ser Tyr Gly Ser
 230 235 240
 Met Phe Tyr Ser Val His Gln Ser Ala Ile Thr Ala Thr Glu Ile
 245 250 255
 Arg Asn Gln Val Lys Lys Glu Met Ile Leu Ala Lys Arg Phe Phe
 260 265 270
 Phe Ile Val Phe Thr Asp Ala Leu Cys Trp Ile Pro Ile Phe Val
 275 280 285
 Val Lys Phe Leu Ser Leu Leu Gln Val Glu Ile Pro Gly Thr Ile
 290 295 300
 Thr Ser Trp Val Val Ile Phe Ile Leu Pro Ile Asn Ser Ala Leu
 305 310 315
 Asn Pro Ile Leu Tyr Thr Leu Thr Thr Arg Pro Phe Lys Glu Met
 320 325 330
 Ile His Arg Phe Trp Tyr Asn Tyr Arg Gln Arg Lys Ser Met Asp
 335 340 345
 Ser Lys Gly Gln Lys Thr Tyr Ala Pro Ser Phe Ile Trp Val Glu
 350 355 360
 Met Trp Pro Leu Gln Glu Met Pro Pro Glu Leu Met Lys Pro Asp
 365 370 375
 Leu Phe Thr Tyr Pro Cys Glu Met Ser Leu Ile Ser Gln Ser Thr

	380	385	390
Arg Leu Asn Ser	Tyr Ser		
	395		
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Thr Phe Leu Leu Leu Phe Val Ile Thr Ser Val Ala Ser Glu Asn			
20	25	30	
Ala Ser Thr Ser Arg Gly Cys Gly Leu Asp Leu Leu Pro Gln Tyr			
35	40	45	
Val Ser Leu Cys Asp Leu Asp Ala Ile Trp Gly Ile Val Val Glu			
50	55	60	
Ala Val Ala Gly Ala Gly Ala Leu Ile Thr Leu Leu Leu Met Leu			
65	70	75	
Ile Leu Leu Val Arg Leu Pro Phe Ile Lys Glu Lys Glu Lys Lys			
80	85	90	
Ser Pro Val Gly Leu His Phe Leu Phe Leu Leu Gly Thr Leu Gly			
95	100	105	
Leu Phe Gly Leu Thr Phe Ala Phe Ile Ile Gln Glu Asp Glu Thr			
110	115	120	
Ile Cys Ser Val Arg Arg Phe Leu Trp Gly Val Leu Phe Ala Leu			
125	130	135	
Cys Phe Ser Cys Leu Leu Ser Gln Ala Trp Arg Val Arg Arg Leu			
140	145	150	
Val Arg His Gly Thr Gly Pro Ala Gly Trp Gln Leu Val Gly Leu			
155	160	165	
Ala Leu Cys Leu Met Leu Val Gln Val Ile Ile Ala Val Glu Trp			
170	175	180	
Leu Val Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala Tyr			
185	190	195	
Glu Pro Met Asp Phe Val Met Ala Leu Ile Tyr Asp Met Val Leu			
200	205	210	
Leu Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys Gly Lys			
215	220	225	
Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr Ala			
230	235	240	
Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu			
245	250	255	
Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro			
260	265	270	
Thr Leu Ala Ile Thr Leu Ala Ala Ser Gly Trp Val Phe Val Ile			
275	280	285	
Phe His Ala Ile Pro Glu Ile His Cys Thr Leu Leu Pro Ala Leu			
290	295	300	
Gln Glu Asn Thr Pro Asn Tyr Phe Asp Thr Ser Gln Pro Arg Met			
305	310	315	
Arg Glu Thr Ala Phe Glu Glu Asp Val Gln Leu Pro Arg Ala Tyr			
320	325	330	
Met Glu Asn Lys Ala Phe Ser Met Asp Glu His Asn Ala Ala Leu			
335	340	345	
Arg Thr Ala Gly Phe Pro Asn Gly Ser Leu Gly Lys Arg Pro Ser			
350	355	360	
Gly Ser Leu Gly Lys Arg Pro Ser Ala Pro Phe Arg Ser Asn Val			
365	370	375	
Tyr Gln Pro Thr Glu Met Ala Val Val Leu Asn Gly Gly Thr Ile			
380	385	390	

Pro Thr Ala Pro Pro Ser His Thr Gly Arg His Leu Trp
 395 400

<210> 6
 <211> 807
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3036563CD1

<400> 6
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 Ile Ala Thr Lys Asp Val Ile Val His Pro Leu Pro Leu Lys Leu
 20 25 30
 Asn Ile Met Val Asp Pro Leu Glu Ala Thr Val Ser Cys Ser Gly
 35 40 45
 Ser His His Ile Lys Cys Cys Ile Glu Glu Asp Gly Asp Tyr Lys
 50 55 60
 Val Thr Phe His Met Gly Ser Ser Ser Leu Pro Ala Ala Lys Glu
 65 70 75
 Val Asn Lys Lys Gln Val Cys Tyr Lys His Asn Phe Asn Ala Ser
 80 85 90
 Ser Val Ser Trp Cys Ser Lys Thr Val Asp Val Cys Cys His Phe
 95 100 105
 Thr Asn Ala Ala Asn Asn Ser Val Trp Ser Pro Ser Met Lys Leu
 110 115 120
 Asn Leu Val Pro Gly Glu Asn Ile Thr Cys Gln Asp Pro Val Ile
 125 130 135
 Gly Val Gly Glu Pro Gly Lys Val Ile Gln Lys Leu Cys Arg Phe
 140 145 150
 Ser Asn Val Pro Ser Ser Pro Glu Ser Pro Ile Gly Gly Thr Ile
 155 160 165
 Thr Tyr Lys Cys Val Gly Ser Gln Trp Glu Glu Lys Arg Asn Asp
 170 175 180
 Cys Ile Ser Ala Pro Ile Asn Ser Leu Leu Gln Met Ala Lys Ala
 185 190 195
 Leu Ile Lys Ser Pro Ser Gln Asp Glu Met Leu Pro Thr Tyr Leu
 200 205 210
 Lys Asp Leu Ser Ile Ser Ile Gly Lys Ala Glu His Glu Ile Ser
 215 220 225
 Ser Ser Pro Gly Ser Leu Gly Ala Ile Ile Asn Ile Leu Asp Leu
 230 235 240
 Leu Ser Thr Val Pro Thr Gln Val Asn Ser Glu Met Met Thr His
 245 250 255
 Val Leu Ser Thr Val Asn Ile Ile Leu Gly Lys Pro Val Leu Asn
 260 265 270
 Thr Trp Lys Val Leu Gln Gln Gln Trp Thr Asn Gln Ser Ser Gln
 275 280 285
 Leu Leu His Ser Val Glu Arg Phe Ser Gln Ala Leu Gln Ser Gly
 290 295 300
 Asp Ser Pro Pro Leu Ser Phe Ser Gln Thr Asn Val Gln Met Ser
 305 310 315
 Ser Met Val Ile Lys Ser Ser His Pro Glu Thr Tyr Gln Gln Arg
 320 325 330
 Phe Val Phe Pro Tyr Phe Asp Leu Trp Gly Asn Val Val Ile Asp
 335 340 345
 Lys Ser Tyr Leu Glu Asn Leu Gln Ser Asp Ser Ser Ile Val Thr
 350 355 360
 Met Ala Phe Pro Thr Leu Gln Ala Ile Leu Ala Gln Asp Ile Gln
 365 370 375
 Glu Asn Asn Phe Ala Glu Ser Leu Val Met Thr Thr Thr Val Ser
 380 385 390
 His Asn Thr Thr Met Pro Phe Arg Ile Ser Met Thr Phe Lys Asn

395 400 405
 Asn Ser Pro Ser Gly Gly Glu Thr Lys Cys Val Phe Trp Asn Phe
 410 415 420
 Arg Leu Ala Asn Asn Thr Gly Gly Trp Asp Ser Ser Gly Cys Tyr
 425 430 435
 Val Glu Glu Gly Asp Gly Asp Asn Val Thr Cys Ile Cys Asp His
 440 445 450
 Leu Thr Ser Phe Ser Ile Leu Met Ser Pro Asp Ser Pro Asp Pro
 455 460 465
 Ser Ser Leu Leu Gly Ile Leu Leu Asp Ile Ile Ser Tyr Val Gly
 470 475 480
 Val Gly Phe Ser Ile Leu Ser Leu Ala Ala Cys Leu Val Val Glu
 485 490 495
 Ala Val Val Trp Lys Ser Val Thr Lys Asn Arg Thr Ser Tyr Met
 500 505 510
 Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
 515 520 525
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr
 530 535 540
 Ile Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His
 545 550 555
 Phe Phe Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Leu
 560 565 570
 Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu Thr Ser Arg
 575 580 585
 Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly Cys Pro
 590 595 600
 Leu Ala Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu
 605 610 615
 Val Tyr Thr Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr
 620 625 630
 Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val
 635 640 645
 Val Asn Ile Thr Ile Thr Ile Val Val Ile Thr Lys Ile Leu Arg
 650 655 660
 Pro Ser Ile Gly Asp Lys Pro Cys Lys Gln Glu Lys Ser Ser Leu
 665 670 675
 Phe Gln Ile Ser Lys Ser Ile Gly Val Leu Thr Pro Leu Leu Gly
 680 685 690
 Leu Thr Trp Gly Phe Gly Leu Thr Thr Val Phe Pro Gly Thr Asn
 695 700 705
 Leu Val Phe His Ile Ile Phe Ala Ile Leu Asn Val Phe Gln Gly
 710 715 720
 Leu Phe Ile Leu Leu Phe Gly Cys Leu Trp Asp Leu Lys Val Gln
 725 730 735
 Glu Ala Leu Leu Asn Lys Phe Ser Leu Ser Arg Trp Ser Ser Gln
 740 745 750
 His Ser Lys Ser Thr Ser Leu Gly Ser Ser Thr Pro Val Phe Ser
 755 760 765
 Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn Leu Phe Gly Lys
 770 775 780
 Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser Ser
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 Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn
 800 805

<210> 7
 <211> 1819
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1258981CB1

<400> 7

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 tttattaact cttaaaaaaa 1819

<210> 8
 <211> 2138
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1459432CB1

<400> 8

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 gccgcagcct gctgggggtgg agggggagctc agctcggtt tggcagcatg cgaccggcac 180
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 catcaacatc atcatgcctt cggtgttcgg caccatctgc ctccctggca tcacatggaa 360
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 <213> Homo sapiens

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 <211> 1515
 <212> DNA
 <213> Homo sapiens

<220>
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 <211> 2919
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3036563CB1

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<210> 13
 <211> 232
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1258981H1

<220>

<221> unsure

<222> 79, 87, 90, 149, 162, 189, 199, 202, 205, 218

<223> a, t, c, g, or other

<400> 13

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tgcccaacag	ccaggtatgt	ggcagtgcna	actcgaccct	gnnggctgaa	gacatgtact	180
cggccccagng	ccaccagng	gncanaccgc	cgaaagangg	caagaactct	ct	232

<210> 14

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1442823R1

<400> 14

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gcgcgtccca	gccaccaccc	cgagaacact	atttggctgg	agtgtgaccg	ccgaggtat	180
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tcagggccct	ccccaaatcc	gaccgcctct	cctgcgcacc	gttgactcag	tcccacacgt	420
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<210> 15

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1962119T6

<400> 15

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accgcgcagg	tgatcctggc	aggaggctgg	ggttggctcc	tcgactccac	aaacactgag	180
gatgggtgg	ggacacccat	gacacccacc	caaacactgg	cagagaggga	ggcccttcca	240
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<210> 16

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2059242R6

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atacat 246

<210> 17
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SATA01180F1

<220>
<221> unsure
<222> 50, 52, 56, 66, 233, 272, 296
<223> a, t, c, g, or other

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gggaggcgtgg ccaccaggat gatgggtgagc acaaacgtgg tgacaatgcc cgccccagcc 180
acggcctcca ggacgatgcc ccacgccccca gagcggtcac acaggtgtta gtncaggggg 240
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<210> 18
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARB01556F1

<220>
<221> unsure
<222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
435-436, 441, 448-449, 455, 457, 459
<223> a, t, c, g, or other

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gcctggnnca gcnnctgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
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<210> 19
<211> 631
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> unsure
<222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
578-579, 585, 592, 605, 607, 627-628
<223> a, t, c, g, or other

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ccgcnnca naaattttcc canncangan anntttanng atccnnggaa ancccataaa 600
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<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

<400> 20
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ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctcctgtggg 180
ccctctccctt catcagcatac accccctgtgt ggctgtatgc cag 223

<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

<400> 21
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gatgccaaca caccgggcac tagaatgacc cctgcacatg cagaacacac ggacactcaa 120
gctggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gctgcaaaag 180
ccccccgacc ccagctttta ttagtttaa gaccccaac cacacccacc ccaggtctcc 240
ttgttttcag taagcagacc tcctagctaa ctgggctttt actcctgtgg gctcagtgcc 300
acatcccctc aaataaaacat gcatcctcta gagcaaaagg gaaattgaca ggtatgtgga 360
acggcgagag atgggatgtct ttattttca ttatccacca gcttgggaga aaggccacct 420
tccatcgac cagtgagagg cggaaagag cgatcgggccc cttccctgtc tctca 475

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

<400> 22
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catcatcatg cttcgtgt tcggcaccat ctgcctctg ggcacatcatcg ggaactccac 180
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ccacaagctc atgggcaatg ggggtgtggca ctttgg 336

<210> 23
<211> 478

<212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 3001554F6

<400> 23
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 cttttactcc tggggctca gtgccacatc ccctcaaata aacatgcata ctctagagca 180
 aaagggagat tgacaggatg ctgaaacgcc gagagatggg atgctttatt tttcattatc 240
 caccagcttg ggagaaaggc caccctccat cgccaccatg agaggcggg aagagcgatc 300
 gggcccttcc cccgtctctca ggccttgcgtc aacatggccc tggctgctca ctccagccct 360
 gcctgacttt aaacaaaccc agtcagtacc cttccaccc tggccttggg aagaagacat 420
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<210> 24
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SAAC00257R1

<220>
 <221> unsure
 <222> 14
 <223> a, t, c, g, or other

<400> 24
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 cagtcagct tggacttctt caccaccgcg aagatgaccg tggagttccc gatgatgccc 180
 aggaggcaga tggtgccgaa caccgaaggc atgatgtatg ttagttagga gatgctcccc 240
 gtgcgaggag gtgatcctgc cgaagtgagg ttatcgaaa 279

<210> 25
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SAAB00250R1

<400> 25
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 tctcttccac gaagttccgg aagccctctg tggccaccct ggtatctgc ctcctgtggg 180
 ccctctcctt catcagccatc accccctgtgt ggctgtatgc cagactcatc ccctccca 240
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 cccctgtacca gtttttgcgtt ggcctttagt ggtatcaca gcegcatacg 360
 tgaggatctt gcagcgcattt acgtccttagt tggcccccgc ctcccagcgc agcatccggc 420
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 gggcaccccta ctatgtgcta cagctgaccc agttgttca 519

<210> 26
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SAAB00523R1

<220>
 <221> unsure
 <222> 113, 130-132, 134, 482, 530
 <223> a, t, c, g, or other

<400> 26
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 ccttggaaan nngncatttg agagctcaca gatatagtgc aaccggttat ccaaaccac 180
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 tggaaatgtat ttatttcat tcaacaaccc ctcacaaccc ggcccttcctg cattttccga 360
 gccgtcttgg gttttctca gcatctctcc cgggtggctg ttgtggtgcct ctgacttgaa 420
 ggtgtcagg gtggcagggg aagtatcagg tgccttgctt tctggcctct ctcgtcagcc 480
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<210> 27
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2214673H1

<400> 27
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 ggcccacagc accaagaggc ttggggccaca aagtaaaggc tcgcggaccc cggccggccgc 120
 catgtggagc tgcagcttgg tcaacggcac agggctggtg gaggagctgc ctgcctgcca 180
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 gggcctgtgc tacaa 255

<210> 28
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3073644H1

<400> 28
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 tctgtggac gcagagact tagttacccct ggacgcctcc cacatccttc cagaaggaga 180
 cgagctgctg gaagacaaggc aggagggggtg ttttttttga agttttttttt ttcccaaaaa 240
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 tca 363

<210> 29
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3573501F6

<220>
 <221> unsure
 <222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216,
 246, 250, 252
 <223> a, t, c, g, or other

<400> 29

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 cggannctcg nccggccgcn tggtagctg cagctngttc aacggcacag ggctgntgga 180
 gganctgcct gcctgccagg acctgcagtg gggntntcac tggtagtcgt gctggccctg 240
 gtggtnnccn tnccagtggg cctgtgtac aacggccctgc t 281

<210> 30
 <211> 238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4618526H1

<400> 30
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 tggggcacac ggccatcatc tcgcgaggga agcccgtgga cgacacactac ctggggctac 180
 tgcactttgt gaaggatttc tccaaactcc tggccttctc cagcagctt gtgacacc 238

<210> 31
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4857037H1

<400> 31
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 gcactgctcc ccggaccaca tgggggtgca gcaggtgctg gcgtaggcgg cccagccctc 180
 ctggggagac gtgactctgg tggacgcaga gcacttagtt accctggacg ctccccacat 240
 ccttccagaa ggagacgag 259

<210> 32
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5025086H1

<400> 32
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 ccatgtgtcc acccgccgcg tagagtgcgc caagatgcag aacgcagaag ctggcgcacgc 120
 cacgctggtg ttcatcggt acgtgggtcc agcactggcc accctctacg cgctgggtct 180
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 ctggcacac aggctgtgg tggccaccgt gtgca 275

<210> 33
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1482004T1

<220>
 <221> unsure
 <222> 3, 97, 99
 <223> a, t, c, g, or other

<210> 34
<211> 466
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 153210R6

<220>
<221> unsure
<222> 14, 156, 277
<223> a, t, c, g, or other

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<400> 34
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tctctctgct gtggcgactg cttaatggga atatattttat tcgtgtatcg aggctttgac 120
ctaaaggttc gtggagaata caataagcat ggcgcantgtg gatggagagt actcattgtc 180
agcttgttagg atctttggcc attctgtcca cagaagtatc agttttactg ttaacatttc 240
tgacatttggaa aaaatacatac tgcattgtct atccctnttag atgtgtgaga cctggaaaat 300
gcagaacaat tacagttctg attctcattt ggattactgg ttttatagtg gtttcattcc 360
attgagacaat aaggaatttt tcaaaaacta ctatggcacc aatggagtat gtttccctct 420
tcattcagaa qatacaqaaa gtattggagc ccagatttat tcagtg 466
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<210> 35
<211> 230
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
<223> Incyte ID No: 2488822H1
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<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

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<400> 35
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cattgtcagc ttgttaggatc ttggccatt ctgtccacag aagtatcagt tttaactgtta 120
acatattctga cattggaaaa atacatctgc attgtctatc cttttagatg tgtgagacct 180
ggaaaaatgca gaacaattac agttctgatt ctcatttggta ttacttggtt 230
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<210> 36
<211> 483
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 3558664T6

<220>

<221> unsure
 <222> 152-193, 334, 447
 <223> a, t, c, g, or other

<400> 36
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 tggatgtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
 ccaggactat attgcaatgc tatgcacata gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
 nnnnnnnnnnn nnngttactg aagtagattt ctcttaattt cttatgcaaa atgtctacta 240
 atatatatac attattgata taattacttc ccttgcataag agcatttagtc atttttattt 300
 ttcctcatgt cttgtaaaaa tatttattttt agcnattattt ataaaattttt tttgtggtat 360
 tcatttcata ccagtaaattc cctcatgaaag caccccaaca gtattctctg cgaagaaatg 420
 aatttcagag tcagtcata atagganttg agtctcgat attgaggaat cagtgacatt 480
 tca 483

<210> 37
 <211> 612
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2488822X308B1

<220>
 <221> unsure
 <222> 561
 <223> a, t, c, g, or other

<400> 37
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 ttgtctgttag ttataccaaa accgatgaat catttcatttta aatggtcttgc tggtcagagt 180
 atagagaatt gggttcaaaag cactgttaat gggcagaataa aaaatcacta cccaaagaggt 240
 tatggtacatc ggtattttctt cctgaagcag taaaagaaaat ttcaactacaa aaatgggtat 300
 ccagcataat gcatcataatcataaaa gaaaaaacgt ttggcaagga tcatctcttt 360
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 gctccatag gaaaaaaactg tgatgataaa tgcggccaaa ttaataccaa gaaaaattgc 480
 cactgaataa atctggggct ccaatacttt ctgtatctc tgaatgaaga gggaaagcata 540
 ctcatttggt gccatagtag ntttgaaaaa ttccatttttgc ctcaatggaa tggaaagccac 600
 ttttaaacca gt 612

<210> 38
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2488822X310D1

<220>
 <221> unsure
 <222> 311, 359, 446, 454, 509, 556
 <223> a, t, c, g, or other

<400> 38
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 aaaccatgtta taatacatgt tcctttgattt gattattaaat ttgatatttt tagcagccata 120
 gaagggttggaaatcataaa tatccaacaa aggttgcattt gacctcttgcataatctct 180
 cacatataattt ttaagaaaaattt ccagtactgt gggatgtcactc cacatgttgc cagctgtaaa 240
 ccaaacactg atggaaatttc atctcttagat aatctcttgc caagcattat tcaagagat 300
 tttgtctggg ntgtatctgc agtacactgc ttggaaaca tttttgtcat ttgcattgcna 360
 ccttatatac ggtctgagaa caagctgtat gccatgtcaa tcattttctct ctgctgtgcc 420
 gactgcttaa tggggatata ttatncgtg atcngaggct ttgacatggaa gtttcgtggaa 480
 gaataacaata agcatgcgc tggatgtatc agatgtactca ttgtcagctt ttaggatctt 540

tggccattcc tgtccncagg ag 562

<210> 39

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201H1

<400> 39

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 tggcagctgg tgggccttgc gctgtgcctg atgctgggtgc aagtcatcat cgctgtggag 180
 tggctgggtgc tcaccgtgct gctgtgacaca aggccagcct ggcctacga gcccattggac 240
 tttgtatgg ccctcatcta 260

<210> 40

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3141184H1

<400> 40

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 caactacttc gacacgtcgc agccaggat gcgggagacg gccttcgagg aggacgtgca 120
 gctgccgcgg gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
 ccgaacagca ggatttccca acggcagctt gggaaaaaga cccagtggca gcttgggaa 240
 aagaccggc gctccgttta gaag 264

<210> 41

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 384797R6

<220>

<221> unsure

<222> 433, 497

<223> a, t, c, g, or other

<400> 41

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 cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacaccttg 240
 gtgaaagact ttaagttcca gagaatcaga atttcttta ccgatttgcc tccctggctg 300
 tgcgtttctt gagggagaaaa tcgtaacag ttgccaaacc aggcccgcctc acagccagga 360
 aatttggaaa tcctagccaa gggatttcg tggtaatgtg aacactgacg aactgaaaag 420
 ctaaacaccga ctncgcggcc tccctgcaca cacacacaga cacgtaatac agaccaacct 480
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<210> 42

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201X325F1

<220>

<221> unsure

<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596

<223> a, t, c, g, or other

<400> 42

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accccaactg gctannaant ttgncggnaa nnngntgggtt ttnannatct tccatgcntc 420
cttganacca atgcacnntt tgccaaccct tanggagaac annccaaact acttngaann 480
tcccnnccca tggtnnnnnn anggccttcn caggaggaat ttatcttnc gggggctaa 540
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<210> 43

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1262948X325F1

<220>

<221> unsure

<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647

<223> a, t, c, g, or other

<400> 43

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ggccctctgaa aacgcccagca catcccgagg ctgtgggtgt gacccctctcc ctcagtaacgt 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtn gagggcggtgg ccggggccggg 240
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tggggctgac gtttccttca tcatccagga agacgagacc aatctgctnc tggccggcn 420
gcttcctctt ggggggttct ctttnggtt ctgtgtttct tcctgcctnc ttangcaagg 480
caatngcncc nttcngaagc ttgggtccgg cantggcang gggcccccnn ggnnttgtaa 540
acttnttggg cttgnccct nttccctnaa agcttggtca aaataatnat nccnttgaa 600
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<210> 44

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3036563H1

<400> 44

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tccatcttga gcttggcagc ctgtcttagtt gtggaaagctg tgggtgtggaa atcggtgacc 180
aagaatcgga ctcttataat gcggccac 207

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<210> 45
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4457161H1

<400> 45
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 ttcacccgct gc&tctaaag ctgaacatca tggatgtcc tttgaagct actgttcat 180
 gcagtggttc ccatcacatc aagtgtcga tagaggagga tggagactac aaagttactt 240
 tccatatggg ttcctcatcc cttc 264

<210> 46
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH00352F1

<400> 46
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 atcccgtaat aggtgtcgga gagccgggaa aagtcatcca gaagctatgc cggatctcaa 180
 acgttcccag cagccctcgag agtcccattt gcccggaccat cacttacaaa tggatgttaggct 240
 cccagtggga ggagaagaga aatgactgca tctctgcccc aataaaacagt ctgctccaga 300
 tggcttaaggc tttgtatcaag agccctctc aggtatggat gctccctaca tacctgaagg 360
 atctttctat tagcatagggc caagcgaaac atgaaatcag ctcttctc 408

<210> 47
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH02656F1

<400> 47
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 atcccgtaat aggtgtcgga gagccgggaa aagtcatcca gaagctatgc cggatctcaa 180
 acgttcccag cagccctcgag agtcccattt gcccggaccat cacttacaaa tggatgttaggct 240
 cccagtggga ggagaagaga aatgactgca tctctgcccc aataaaacagt ctgctccaga 300
 tggcttaaggc tttgtatcaag agccctctc aggtatggat gctccctaca tacctgaagg 360
 atctttctat tagcatagggc aaagcgaaac atgaaatcag ctcttctc 413

<210> 48
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH01730F1

<220>
 <221> unsure
 <222> 341, 393
 <223> a, t, c, g, or other

<400> 48
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 ccacccagaa acctatcaac agagggttgc tttccatac ttgcacctct gggcaatgt 120
 ggtcattgac aagagctacc tagaaaaactt gcagtcggat tcgtctattt tcaccatggc 180
 tttcccaact ctccaagcca tccttgctca ggatatccag gaaaataact ttgcagagag 240
 cttagtgtatg acaaccatg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
 ttttaagaac aatagccctt cagcggcga aacgaagtgt ngtttctgg aacttcaggc 360
 ttgccaacaa cacagggggg tggacagca gtnggtgcta tggtaagaa ggtgatgggg 420
 acaatgtcac ctgtatctgt gaccaccta catcattctc catcctcatg tcccctgact 480
 tcccaagatc 489

<210> 49
 <211> 87
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAHO3622F1

<400> 49
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 aaggggtaga acagcattag ggccaaat 87

<210> 50
 <211> 116
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAHO1163F1

<400> 50
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 atgctcttgg atgagtttc cagggatgat ctggttctt ctgtgttgaa atcgtg 116

<210> 51
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAHO2669F1

<400> 51
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 cctgttttac caaacaattt gttaaatctc cttgatattt gagaactcat agaaaacaca 180
 ggtgtggatg aacccaggaa tgctgacttt gaggctgtg aagaccatct cgacaatgaa 240
 aacttattca gcaaagcttc ctgtaccttc agatccaga ggcattccaa gatgaaaatg 300
 aataatccct ggaagacattt gaggatggca aatatgat ggaacacaag gttggccct 360
 gggaaacacag tggtgagacc aaaacccaa gtgaggccca agatgggtg gaggacccaa 420
 atgctcttgc tgatctgaaa caggctgctc ttctccgtt tgcatggctt gtctccatg 480
 gaaggcctca ggatcttggt gatgacacaa tagtgtatggt tatgttcacc acacaatgat 540
 cagtgtggg atggcaaa 558

<210> 52
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAHO0249F1

<400> 52
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 aac tacatcg acctccggg gacagtggct gtgtttaa aaagagatgc ttgcaaaca 120
 tgggaacgt gttctcgggg cagggttccg ggagcagatg caaaaaagac ttttcata 180
 agaaggggct ttctttgt aagacagaat aaaaataatt gtatgttc tggttggcc 240
 ctccttc ccctgtgtg ataccacatg tgtatgtat ttaagtgaaa ctcaagccct 300
 caaggcccaa cttctgttc tataatgtat atagattcc gagaggcatt ttcaccc 360
 ac 362

<210> 53
 <211> 615
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702778992H2

<400> 53
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 catgtacacg tacggcaaca ggcagcgcac cagccccacc tggatgacc ccacgcgtgc 120
 catcgccctc gccgccaatg cctggccctt tgcgtcttc tatgtcatcc ctgaggctc 180
 ccaggtgacc aaggccagcc cagacaaag ttaccagggg gacatgtacc ccacccggg 240
 cgtaggctac gagaccatcc tgaagagaca gaaggccag agtatgtttg tggagacaa 300
 ggcattttcc atggatgagc cagcctcagc taagagaccg gtgtcaccat acgtggta 360
 caacggcag ctgctgacca gcgtgctcca gcccaccgag atggccctga tgcacaaagg 420
 cccgtccgaa ggagcttacg acgtcatct cccacgagcc accgcaaca gccaggtgat 480
 gggcagtggcc aactccaccc tgagggccga agacatgggtt gcccggccaga gccaccaggc 540
 agccacgcca ccgagagacg gcaagagctc ccaggtctt agaaaccctt acgtgtggga 600
 ctgagtcggc ggcag 615

<210> 54
 <211> 686
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701938522F6

<400> 54
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 aagcagcacc atagccocac ctggatgac cccacactgg ccattgcgtc cgctgccaat 120
 gcctggactt ttgtcttctt ctatgtcatc cctgaggtct cccaagtgac caaaccggc 180
 ccagaacaga gctaccagggg ggacatgtac ccgaccggag ggtggggcta cgagaccatc 240
 ctgaaggagc agacgggcca gaggatgtt tggagaacaa ggcattttct atggatgaac 300
 cagcctcagc aaagagaccc gtgtcgccctt acgtgctta caatgttccat ctgctgacca 360
 gcgtgtacca gcccaccgag atggccctga tgcacaaagg cccgtctgaa ggtgcgtacg 420
 acgtcatctt cccacggggcc accgcaacag ccaggtgtat ggcagtggcca actcaaccct 480
 gcgagctgaa gacatgtaca tggccagag ccaccagggt gacgccaac gaaagacggc 540
 aagatctctc aggatcagtc cccggaaaaat aaaacaagat ggttagatgcc ctctccctg 600
 gaccgtgacc tctccgtgtg ccattgccaa catggacttt gtcatggcct catttacgt 660
 atgtctgtgc tgctggccgc ttctca 686

<210> 55
 <211> 198
 <212> DNA
 <213> Macaca fascicularis

<220>
 <221> misc_feature
 <223> Incyte ID No: 700712581H1

<400> 55
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 gggcttggcc tcctggacaa ggtggcaggct gctggaggct gccgcagtct gctgtgggtgg 120

aggggagctc agcttggttg tggagccgg cgaccgtcac tggctggatg gacctggaag 180
 cctcgctgct gcccactg 198

<210> 56
 <211> 271
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701250242H1

<400> 56
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 gtggggatc tgctttccct gctggcatg ctttcatga tccaccagct catggtaat 120
 ggtgtctggc actttggga aaccatgtgc accctcatca cagccatgga cgccaacagt 180
 cagttcacca gcacctacat cctgactgct atggccattg accgctactt ggccaccgtc 240
 catccatct cttccaccaa gttccgaaag c 271

<210> 57
 <211> 304
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701899983H1

<400> 57
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 cctgtggcg ctctcctca tcagtatcac ccctgtgtgg ctctacgcca ggctcattcc 120
 cttcccaggg ggtgctgtgg gctgtggcat ccgcctgcca aaccggaca ctgaccctta 180
 ctggttcact ctgtaccagt tttcctggc ctttgccctt ccgtttgtgg tcattaccgc 240
 cgcatacgtg aaaatactac agcgcacgtac gtcttcggtg gctccagcct cccaacgcag 300
 catc 304

<210> 58
 <211> 248
 <212> DNA
 <213> Rattus norvegicus .

<220>
 <221> misc_feature
 <223> Incyte ID No: 701028051H1

<400> 58
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 cagcagcatc tccgatggcc aggataatct cacattgccc gggtcacactc ctcgcacagg 120
 gagtgtctcc tacatcacat cattatgcct tccgtgtctg gtaccatctg tctcctggc 180
 atcgtggaa actccacggt catcttgct gtcgtgaaga agtccaagct acactggtgc 240
 agcaacgt 248

<210> 59
 <211> 497
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> Incyte ID No: 075474_Mm.1

<400> 59
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 acacccggca cgtgtgtggc ttctgtctggg gagggccgt gctcaccacgc ttctcctccc 180
 tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

acacggaggc agccgatgct atccttgc tcatacgctc cgtgggtccca ggtctggctg 300
 tggatgc cctggcaccc atctcgagaa tcgggaagga agacacaccc ctggaccagg 360
 acaccagcag gctggacccc tgggtgcaca ggctgctggt ggcacccgtg tgcactcagt 420
 ttggctctg gacacctac tacttgagcc tggggacaca gtgctgacgt cacggggag 480
 gaccgtggag gggcatt 497

<210> 60
 <211> 266
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 700819903H1

<400> 60
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 ggatgcagaa cacggaggca gcccacgcca tccttgcgt cattggctac gtgggtccag 180
 gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
 tggaccagga caccagcagg ctggac 266

<210> 61
 <211> 294
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701657796H1

<400> 61
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 ggtggccact gtgtgcacac agtttggcct ctggacacct tactacctga gcctggggca 120
 cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctggca tcctacaggt 180
 tgctaaggac ctggcgaagt tcttggcctt ctcaagcagt tctgtgacgc cgctgctcta 240
 ccgttacatc aacaaaggct tccccagcaa gctccggcgc ctggtaaga agat 294

<210> 62
 <211> 432
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702466096T1

<400> 62
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 gatcatctcc ttcttcaccc gcttctgtat ttcgggtggct gtatggtc tttgatgaac 120
 actgtaaaac atgcttcat aggagaacac aatgatgata aacgccacca ggttaataac 180
 ctgttagac catgaagaat attagtagtg tatgctagca ttctcttaag acaaacatgg 240
 cttagatgtc actattaaag atcacagagc ccataaaagtg gtattcattt attcgtttat 300
 ttactctgtg acaaggcttt attgttagagt tcagatgagc ctcaacttg actaggtagc 360
 ctaggctgga caccaacatg cagtcctccct gcctcagatt acaaatgtgt accagatctt 420
 cctgatctcc at 432

<210> 63
 <211> 727
 <212> DNA
 <213> *Macaca fascicularis*

<220>
 <221> misc_feature
 <223> Incyte ID No: 703021534H1

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<400> 63
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ctccacacgc atgatgactt gtaccagcat caggcacagc gccaggcccc ccagctgcca 180
gccccgcgggg cccgtgccgt gccgcaccag cctccgcacg cgccacgcct ggctcagcag 240
gcaggagaag cagagcgcac agaggacgac ccagaggaag cggcggacgg agcagatgg 300
ctcgccctcc tggatgatga aggcaatgt cagcccgaaag aggccccaggg tcccccaggag 360
gaagagaaag tggaggcccc cggggctt cttctccctt tccttgcata agggcagccg 420
caccaggagg atgacatca ggacgcgtgt gatcaggccg cccggccccgg ccaacgcgtt 480
caacaagaag tgccccagat ggctccagg tcgcacaggg acacgttact gagggacggc 540
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aagagcagga ggaagggttag cacctggta gctctcatct ttctctctga tgccacgaaac 660
attcgacccc tgccggcccg agcgcacaaacg ctccagctgg gcctcggcccc gagtcacatc 720
tctgcag 727

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<210> 64
<211> 461
<212> DNA
<213> *Canis familiaris*

<220>
<221> misc_feature
<223> Incyte ID No: 703543565J1

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<400> 64
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tgttactgat ttccccccta agaaagacac agccaggaa taaaatcggt aacgagagat 180
tcttacttct ctgyaactta acacagttt tcacccaggg tggttcccg tgctaaactag 240
gcggagcagt tggtagatgc cctccatcga gcacaacgcgc catctcagct gggctgacta 300
gacacttgcg ctctaaacgg agcgctcggt ctgttccca agctgcatt gcgacaattcc 360
cgccgttccgg agagctgcat agtggtcatc catcgagaag gtttcgcttc tccatgttagg 420
tccgtggcag ctgcacgtcc tcctcacaac gcatgtctcc c 461

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<210> 65
<211> 278
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> Incyte ID No: 076599_Mm.1

<220>
<221> unsure
<222> 249
<223> a. t. c. a. or other

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tcccttgccc  ctgtcctgg  tgattgcctc  cgtggcttc  gagaacgcca  gcacgtccccg  180
gggctgtgga  ctggaccttc  ttccctcagta  cgtgtccctg  tgcgacctgg  acgccatctg  240
gggcattccnt  ggtggggggc  agtggccggg  qcqqggggc  278
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<210> 66
<211> 561
<212> DNA
<213> *Battus norvegicus*

<220>
<221> misc_feature
<223> Incyte ID No: 701749639H1

<400> 66
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acgtttgctt tcatcatccg gatggacgag acaatctgct ccatccgacg cttcctctgg 120
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 ctggtgccgccc agggcacgag cccggccagc tggcagctgg tgagcctggc actgtgcctg 240
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 aaggccggcct gcgcctacga gcccatggat tttgtatgg cgctcatcta cgacatggg 360
 ctgctggcta tcacccttagc gcagtccctc ttcacactgt gtggcaagtt caagcggtgg 420
 aaggtgaacg gaggccttcat cctcatact accttcctct ctgtgctcat ctgggtgatc 480
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 cctaccttgg ccatcacgct g 561

<210> 67
 <211> 499
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 702147192H1

<400> 67
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 acgtcccggg gctgtgggct ggaccttctt ctcagtagc tgccctctgtg cgacctggac 180
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 gtgtgcctcc acttcctctt cctgctgggg accctggcc tcttggcct gacgtttgct 360
 ttcatcatcc ggatggacga gacaatctgc tccatccgac gcttcctctg ggggtgcctc 420
 ttgcactct gctttcctg cctgctgagc caggcgtggc gggtaacggag gctgggtgcgc 480
 cagggcacga gcccggcca 499

<210> 68
 <211> 565
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 703557532J1

<220>
 <221> unsure
 <222> 24
 <223> a, t, c, g, or other

<400> 68
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 aatgccttc agggattatt catttgcctt tggatgcctc tggatcaga aggtacagga 180
 agccttacta aagaagtttt cactgtcaag atggtcttct cagcactcaa agtcaacatc 240
 ccttaggttca tctacaccag tattttctat gagttctcca atatcaagaa gattnaaca 300
 tttattggaa aaacaggaac gtacaagttt ccacccaga aacaaccagc tcatccctgg 360
 aaaacacatc cagtgcattac tccttgcgtga actaagaaca gggaaatcta cccacgtgac 420
 ttcttaaagg acagcggata tgctctgaaa aaaaaaaaaa atccttcaa agccatgggg 480
 taaaacggtt tcctccgagg ctccccggga gcaaattgctg aagagacctt tcggctttag 540
 gggaaaagaa gcttccttgg gtaaa 565

<210> 69
 <211> 468
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702766139H1

<400> 69

cccgccagta ggactccaga gatgtttggc acttttgcg aatggcagag tttctggatg 60
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 accacattaa gcttcataga tggctccgg actgaattat tagcagcatt aggtaaagt 180
 acaaaaatag tccagcttt ttagacacca ggaaactgat gtccttgcca tgaacttgta 240
 tttgcagcac acttgctgc cattaacttc ttttctgca ggaaaggata aggaatccac 300
 ttggaaagtc actctgttagt atctcagtcc tcgtcaatgc agcatctgaa gtgataggg 360
 acccttgcag ggaactgttag cactccagag gatcaaccat gatgtttggc tctagaggca 420
 gtgggtaaac ggtcacatct ttcattacga cacatgtatg aatacttg 468

<210> 70
 <211> 263
 <212> DNA
 <213> *Mus musculus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701085654H2

<400> 70
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 ttcgggtttg ccacagtgtat ccagggaaagc aatgctgtgt tccacatcat atttactact 120
 ctcaatgcct tccaggggct cttcattttg ctcttggct gcctctggga tcagaaggtg 180
 caggaagctt tgctgcataa gtttcttgc tcaagggtgtt cttctcaaca ctcaaagtca 240
 acatccatag gttcgtcaac acc 263

<210> 71
 <211> 246
 <212> DNA
 <213> *Mus musculus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701077530H1

<400> 71
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 gttgattatt gtgggtttaa atgtgagcat cacagtgtgt gtcatcacca agatcctgag 180
 gcccctccatt ggggacaagc caggcaagca agagaagagc agcctattcc acatcagcaa 240
 gagtat 246

<210> 72
 <211> 515
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702147631H1

<400> 72
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 atcacagtgg gggttacaca gcccacaggaa gtttacatga ggaagaatgc atgttggctc 180
 aactgggagg acaccagagc actgctggct tttgctatcc cagcgttgc tattgtgggt 240
 gtgaacgtga gcatcacatgttgggtcacc accaagatcc taaggccctc cgtcggagac 300
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